

Special Issue

Adaptive Control Using Magnetorheological Technology

Message from the Guest Editors

Magnetorheological (MR) technology has received considerable research attention in recent decades. MR materials, such as MR fluids, MR elastomers, MR greases, MR foams, etc., have been developed and widely investigated. This is a call for a Special Issue on “Adaptive Control Using Magnetorheological Technology”. The Special Issue will provide a platform for scholars and researchers to showcase their recent progress and findings, whilst highlighting key challenges and difficulties for future study in this field. The submitted papers are expected to contribute innovative ideas and major breakthroughs in the application of MR technology in adaptive control. Acceptable research topics include, but are not limited to, the following:

- Fundamental investigations on MR materials;
- Advanced magnetorheological devices and structures;
- Cutting-edge control theories and algorithms for MR applications;
- Vibration attenuation, isolation and absorption based on MR systems for vehicles, buildings, railway systems, etc.;
- Other applications of MR technology, such as the impact protection of the landing gear of aircrafts.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2025)



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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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